REMARKS

Election

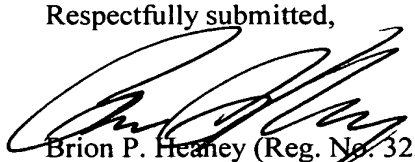
In response to the Office Action of January 30 2002, applicants hereby elected the compound of Ex. 49., i.e., 6-[[1-(4-methylphenyl)-2-phenyl-1H-benzimdazol-6-yl]oxy] hexanoic isopropyl ester. Applicants assume that further prosecution will be performed in accordance MPEP §809.02(c).

Amendments

The claims are amended to employ language in accordance with conventional U.S. practice and to delete superfluous language. New claims 25 and 26 are directed to the elected species.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached pages are captioned **"Version with Markings to Show Changes Made"**.

Respectfully submitted,



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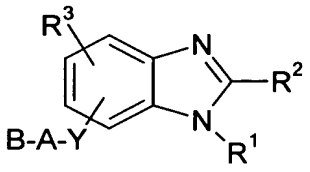
VERSION WITH MARKINGS TO SHOW CHANGES MADE

--1. (Amended) A benzimdazole compound according to formula I



(I)

in which

R^1 means a monocyclic or bicyclic C_{6-12} aryl group or a monocyclic or bicyclic 5- to 10-membered heteroaryl group with 1-4 heteroatoms selected from the group that consists of N, S or O, ~~whereby the mentioned~~wherein said aryl or heteroaryl group ~~can be~~is unsubstituted or is substituted with up to three of the following substituents, independently of one another:

F, Cl, Br, I,

$C(NH)NH_2$, $C(NH)NHR^4$, $C(NH)NR^4R^{4'}$, $C(NR^4)NH_2$, $C(NR^4)NHR^{4'}$,

$C(NR^4)NR^4R^{4'}$,

XOH, XOR^4, $XOCOR^4$, $XOCONHR^4$, $XOCOOR^4$,

$XCOR^4$, $XC(NOH)R^4$, $XC(NOR^4)R^{4'}$, $XC(NO(COR^4))R^{4'}$

XCN, XCOOH, $XCOOR^4$, $XCONH_2$, $XCONR^4R^{4'}$, $XCONHR^4$, XCONHOH,

$XCONHOR^4$, $XCOSR^4$

XSR^4, $XSOR^4$, XSO_2R^4,

SO_2NH_2, SO_2NHR^4, $SO_2NR^4R^{4'}$,

NO_2, XNH_2, $XNHR^4$, $XNR^4R^{4'}$, $XNHSO_2R^4$, $XN(SO_2R^4)SO_2R^{4'}$,

$XNR^4SO_2R^{4'}$,

$XNHCOR^4$, $XNHCOOR^4$, $XNHCONHR^4$, tetrahydro-2,5-dioxopyrrol-1-yl, 2,5-dihydro-2,5-dioxopyrrol-1-yl, 2,7-dihydro-2,7-dioxoisoindol-1-yl, and R^4,

~~whereby two~~wherein two of said R^1 substituents ~~at R^1~~, if they are in ortho-position to one another, can be linked to one another in such a way that they jointly form methanediylbisoxy, ethane-1,2-diylbisoxy, propane-1,3-diyl, ~~butane-1,4-diyl,~~or butane-1,4-diyl;

R^2 means a monocyclic or bicyclic C_{6-10} aryl group or a monocyclic or bicyclic 5- to 10-membered heteroaryl group with 1-4 heteroatoms selected from the group that consists of N, S or O, ~~whereby the mentioned~~wherein said aryl or heteroaryl group ~~can be substituted~~is unsubstituted or is substituted with up to three of the following substituents, independently of one another:

F, Cl, Br, I,

XOH, XOR^4, $XOCOR^4$, $XOCONHR^4$, $XOCOOR^4$,

$XCOR^4$, $XC(NOH)R^4$, $XC(NOR^4)R^{4'}$, $XC(NO(COR^4))R^{4'}$,

XCOOH, $XCOOR^4$, $XCONH_2$, $XCONHR^4$, $XCONR^4R^{4'}$, XCONHOH,

$XCONHOR^4$, $XCOSR^4$,

XSR^4, $XSOR^4$, XSO_2R^4, SO_2NH_2, SO_2NHR^4, $SO_2NR^4R^{4'}$,

NO_2, $XNHR^4$, $XNR^4R^{4'}$, $XNHSO_2R^4$, $XN(SO_2R^4)SO_2R^{4'}$, $XNR^4SO_2R^{4'}$, tetrahydro-2,5-dioxopyrrol-1-yl, 2,5-dihydro-2,5-dioxopyrrol-1-yl, 2,7-dihydro-2,7-dioxoisoindol-1-yl, and R^4,

~~whereby two~~wherein two of said R^2 substituents ~~at R^2~~, if they are in ortho-position to one another, can be linked to one another in such a way that they jointly form methanediyl-bisoxy, ethane-1,2-diylbisoxy, propane-1,3-diyl, ~~butane-1,4-diyl,~~or butane-1,4-diyl;

R^3 means one or two ~~substituents, which form,~~substituents which are independently of one another:

hydrogen,

F, Cl, Br, I,

XOH, XOR^4, $XOCOR^4$, $XOCONHR^4$, $XOCOOR^4$,

$XCOR^4$, $XC(NOH)R^4$, $XC(NOR^4)R^{4'}$, $XC(NO(COR^4))R^{4'}$,

XCN, XCOOH, $XCOOR^4$, $XCONH_2$, $XCONHR^4$, $XCONR^4R^{4'}$, XCONHOH,

$XCONHOR^4$, $XCOSR^4$, XSR^4, $XSOR^4$, XSO_2R^4, SO_2NH_2, SO_2NHR^4,

$SO_2NR^4R^{4'}$,

NO_2, XNH_2, $XNHR^4$, $XNR^4R^{4'}$,

$XNHSO_2R^4$, $XNR^4SO_2R^{4'}$, $XN(SO_2R^4)(SO_2R^{4'})$,

$XNHCOR^4$, $XNHCOOR^4$, $XNHCONHR^4$, tetrahydro-2,5-dioxopyrrol-1-yl, 2,5-dihydro-2,5-dioxopyrrol-1-yl, 2,7-dihydro-2,7-dioxoisoindol-1-yl, or R^3 ~~can be R^4~~,

~~whereby~~wherein two substituents~~at~~ **R^3**, if they are in ortho-position to one another,

can be linked to one another in such a way that they jointly form methanediylbisoxy, ethane-1,2-diylbisoxy, propane-1,3-diyl, ~~butane-1,4-diyl,~~or butane-1,4-diyl;

R^{4} and **R**$^{4'}$, independently of one another, mean C_{1-4} perfluoroalkyl, C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkinyl, C_{3-7} cycloalkyl, ~~(C_{1-3} alkyl-C_{3-7} cycloalkyl)~~, C_{1-3} alkyl-C_{6-10} aryl, C_{1-3} alkyl-5 to 10-membered heteroaryl~~,~~ with 1-4 N, S or O atoms, or C_{6-10} aryl or 5- to 10-membered heteroaryl with 1-4 N, S or O atoms, ~~whereby the~~wherein aryl and heteroaryl groups ~~can be~~are unsubstituted or substituted ~~with~~by one or two substituents ~~from the group that consists of~~selected from F, Cl, Br, CH_3, C_2H_5, NO_2, OCH_3, OC_2H_5, CF_3, ~~C_2F_5 or else~~and C_2F_5, or can carry an annelated methanediylbisoxy group or ethane-1,2-diylbisoxy group, and ~~in addition in~~wherein a 5-membered cycloalkyl ring, can have an N or O ring member, and wherein ~~ring member can be an N or an O, and in~~ a 6- or 7-membered cycloalkyl ring~~,~~ can have N and/or O, and wherein one or two ring members ~~can be N and/or O, whereby~~which are each ring nitrogens optionally can be substituted with C_{1-3} alkyl or C_{1-3} alkanoyl,

R^{5} and **R**$^{5'}$, independently of one another, mean C_{1-6} alkyl, C_{2-6} alkenyl, or C_{2-6} alkinyl, ~~whereby~~wherein in each case a carbon atom can be ~~exchanged for~~optionally replaced by O, S, SO, SO_2, NH, N C_{1-3} alkyl or N C_{1-3} alkanoyl,

C_{3-7} cycloalkyl-C_{0-3} alkyl, where~~by~~ in a 5-membered cycloalkyl ring, ~~a~~can optionally have an N or O ring member~~can be an N or an O~~ and~~in~~ a 6- or 7-membered cycloalkyl ~~ring,~~ring can optionally have one or two ring members ~~can be~~which are each N and/or O, ~~whereby~~wherein ring nitrogens optionally can be substituted with C_{1-3} alkyl or C_{1-3} alkanoyl,

C_{6-10} aryl or 5- to 10-membered heteroaryl with 1-4 heteroatoms from N, S, and O, whereby the mentioned alkyl, alkenyl and alkinyl chains can be substituted with one of the previously mentioned cycloalkyls, aryls or heteroaryls,

whereby all previously mentioned alkyl and cycloalkyl radicals ~~with up to two substituents consisting of~~can be substituted with up to two substituents selected from CF_3, C_2F_5, OH, O C_{1-3} alkyl, NH2, NH C_{1-3} alkyl, NH C_{1-3} alkanoyl, N (C_{1-3} alkyl)$_2$, N(C_{1-3} alkyl)(C_{1-3} alkanoyl), COOH, $CONH_2$, and COO C_{1-3} alkyl, and all previously mentioned aryl and heteroaryl groups can optionally be substituted with one or two substituents ~~from the group that consists of~~selected from F, Cl, Br, CH_3, C_2H_5, NO_2, OCH_3, OC_2H_5, CF_3, ~~C_2F_5~~and C_2F_5, or else can carry an annelated methanediylbisoxy, ethane-1,2-diylbisoxy group,

or R^5 and $R^{5'}$ together with the nitrogen atom form a 5-to 7-membered heterocyclic

~~compound,~~group, which can optionally contain another oxygen, nitrogen or sulfur atom and can be optionally substituted ~~with~~by C_{1-4} alkyl, C_{1-4} alkoxy-C_{0-2} alkyl, C_{1-4} alkoxy-carbonyl, aminocarbonyl or phenyl,

A means C_{1-10} alkanediyl, C_{2-10} alkenediyl, C_{2-10} alkinediyl, or (C_{0-5} alkanediyl-C_{3-7} cycloalkanediyl-C_{0-5} alkanediyl), where~~by~~ in a 5-membered cycloalkyl ring, ~~a ring member can be an N or an O, and in~~can optionally have an N or O ring member, and a 6- or 7-membered cycloalkyl ring~~,~~ can optionally have one or two ring members ~~can be~~which are each N ~~and/or~~ or O, whereby ring nitrogens optionally can be substituted with C_{1-3} alkyl or C_{1-3} alkanoyl,

whereby in ~~the~~ above-mentioned aliphatic chains, a carbon atom or two carbon atoms can be optionally replaced by ~~exchanged~~ for O, NH, N C_{1-3} alkyl, N C_{1-3} alkanoyl, and whereby alkyl or cycloalkyl groups can be optionally substituted with up to two substituents selected from ~~consisting of~~ =O, OH, O C_{1-3} alkyl, NH2, NH C_{1-3} alkyl, NH C_{1-3} alkanoyl, N (C_{1-3} alkyl)$_2$, and N(C_{1-3} alkyl)(C_{1-3} alkanoyl),

B means COOH, $COOR^5$, $CONH_2$, $CONHNH_2$, $CONHR^5$, $CONR^5R^{5'}$, CONHOH, $CONHOR^5$,

SO_3H, SO_2NH_2, SO_2NHR^5, $SO_2NR^5R^{5'}$,

PO_3H, $PO(OH)(OR^5)$, $PO(OR^5)(OR^{5'})$, $PO(OH)(NHR^5)$,

$PO(NHR^5)(NHR^{5'})$, or

tetrazolyl,

in each case bonded to a carbon atom of group **A**,

or the entire group **Y-A-B** is $N(SO_2R^4)(SO_2R^{4'})$ or $NHSO_2R^4$,

X means a bond, CH_2, $(CH_2)_2$, $CH(CH_3)$, $(CH_2)_3$, $CH(CH_2CH_3)$, $CH(CH_3)CH_2$, or $CH_2CH(CH_3)$,

Y means O, NH, NR^4, $NCOR^4$, NSO_2R^4,

provided that if Y means NH, NR^4, $NCOR^4$ or NSO_2R^4, and

a) substituent $\mathbf{R^2}$ contains a nitrogen-containing, saturated heterocyclic group ~~compound,~~ this heterocyclic group ~~compound~~ is not substituted in the imine nitrogen with H, methyl, ethyl, propyl or isopropyl,

or

b) in optionally present groups $XNHR^4$ or $XNR^4R^{4'}$ of substituent R^2, R^4 and/or

$R^{4'}$ does not mean C_{1-4} alkyl,

that B does not mean COOH, SO_3H, PO_3H_2 or tetrazolyl at the same time, and R^1 and R^2, independently of one another, mean C_{5-6} heteroaryl or phenyl, if the latter, independently of one another, are unsubstituted, or are substituted simply with C_{1-6} alkyl, C_{1-4} perfluoroalkyl, O C_{1-6} alkyl, O C_{1-4} perfluoroalkyl, COOH, COO C_{1-6} alkyl, CO C_{1-6} alkyl, $CONH_2$, $CONHR^4$, NO_2, NH_2, $NHCOR^4$, $NHSO_2R^4$, or with 1 or 2 halogen atoms from the group~~that consists of~~ F, Cl, Br, and I, and

whereby the following compounds are excluded:

[(1,2-Diphenyl-1H-benzimidazol-6-yl)oxy]acetic acid methyl ester,

5-[(1,2-diphenyl-1H-benzimidazol-6-yl)oxy]pentanoic acid methyl ester,

4-[(1,2-diphenyl-1H-benzimidazol-6-yl)oxy]butanoic acid ethyl ester,

5-[[1-(4-nitrophenyl)-2-phenyl-1H-benzimidazol-6-yl]oxy]-pentanoic acid methyl ester,

6-[[1-(4-nitrophenyl)-2-phenyl-1H-benzimidazol-6-yl]oxy]hexanoic acid methyl ester,

5-[[1-(4-aminophenyl)-2-phenyl-1H-benzimidazol-6-yl]oxy]pentanoic acid methyl ester,

5-[[1-[4-[[(4-chlorophenyl)sulfonyl]amino]phenyl]-2-phenyl-1H-benzimidazol-6-yl]oxy]pentanoic acid methyl ester,

5-[[1-[4-[(acetyl)amino]phenyl]-2-phenyl-1H-benzimidazol-6-yl]oxy]pentanoic acid methyl ester

5-[[1-(3-nitrophenyl)-2-phenyl-1H-benzimidazol-6-yl]oxy]pentanoic acid methyl ester,

6-[[1-(3-nitrophenyl)-2-phenyl-1H-benzimidazol-6-yl]oxy]hexanoic acid methyl ester,

5-[[1-(3-aminophenyl)-2-phenyl-1H-benzimidazol-6-yl]oxy]pentanoic acid methyl ester,

5-[[1-[3-[[(4-chlorophenyl)sulfonyl]amino]phenyl]-2-phenyl-1H-benzimidazol-6-yl]oxy]pentanoic acid methyl ester,

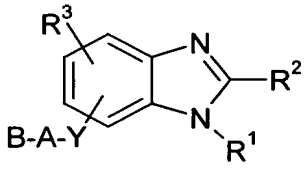
5-[[1-[3-[(acetyl)amino]phenyl]-2-phenyl-1H-benzimidazol-6-yl]oxy]pentanoic acid methyl ester.

13. (Amended) ~~Use of a compound according to claim 1 for the production of a~~ A

process for preparing a pharmaceutical ~~agent~~ composition for treating or preventing diseases ~~that are associated with a microglia activation~~ comprising combining a compound according to claim 1 with a pharmaceutical vehicle or diluent.

14. (Amended) A pharmaceutical ~~agent~~ composition comprising one or more compounds according to claim 1 and one or more vehicles or diluents.

15. (Amended) ~~Use of~~ A method for treating a patient suffering from a disease associated with microglia activation comprising administering to said patient an effective amount of a benzimidazole compound of ~~general~~ formula II



(II)

in which

R¹ means a monocyclic or bicyclic C_{6-12} aryl group or a monocyclic or bicyclic 5- to 10-membered heteroaryl group with 1-4 heteroatoms selected from ~~the group that consists of~~ N, S ~~or~~ and O, whereby ~~the mentioned~~ said aryl or heteroaryl group can be optionally substituted with up to three of the following substituents, independently of one another:

F, Cl, Br, I, $C(NH)NH_2$, $C(NH)NHR^4$, $C(NH)NR^4R^{4'}$, $C(NR^4)NH_2$, $C(NR^4)NHR^{4'}$, $C(NR^4)NR^4R^{4'}$, XOH, XOR^4, $XOCOR^4$, $XOCONHR^4$, $XOCOOR^4$, $XCOR^4$, $XC(NOH)R^4$, $XC(NOR^4)R^{4'}$, $XC(NO(COR^4))R^{4'}$, XCN, XCOOH, $XCOOR^4$, $XCONH_2$, $XCONR^4R^{4'}$, $XCONHR^4$, XCONHOH,

$XCONHOR^4$, $XCOSR^4$, XSR^4, $XSOR^4$, XSO_2R^4, SO_2NH_2, SO_2NHR^4, $SO_2NR^4R^{4'}$, NO_2, XNH_2, $XNHR^4$, $XNR^4R^{4'}$, $XNHSO_2R^4$, $XN(SO_2R^4)(SO_2R^{4'})$, $XNR^4SO_2R^{4'}$, $XNHCOR^4$, $XNHCOOR^4$, $XNHCONHR^4$, tetrahydro-2,5-dioxopyrrol-1-yl, and 2,5-dihydro-2,5-dioxopyrrol-1-yl, 2,7-dihydro-2,7-dioxoisoindol-1-yl, R^4, ~~whereby~~ wherein two **R^1** substituents at ~~**R^1**~~, if they are in ortho-position to one another, can optionally be linked to one another in such a way that they jointly form methanediylbisoxy, ethane-1,2-diylbisoxy, propane-1,3-diyl, or butane-1,4-diyl~~;~~;

R^2 means a monocyclic or bicyclic C_{6-10} aryl group or a monocyclic or bicyclic 5- to 10-membered heteroaryl group with 1-4 heteroatoms selected from ~~the group that consists of~~ N, S ~~or~~and O, ~~whereby the mentioned~~ wherein said aryl or heteroaryl group can be optionally substituted with up to three of the following substituents, independently of one another:

F, Cl, Br, I, $C(NH)NH_2$, $C(NH)NHR^4$, $C(NH)NR^4R^{4'}$, $C(NR^4)NH_2$, $C(NR^4)NHR^{4'}$, $C(NR^4)NR^4R^{4'}$, XOH, XOR^4, $XOCOR^4$, $XOCONHR^4$, $XOCOOR^4$, $XCOR^4$, $XC(NOH)R^4$, $XC(NOR^4)R^{4'}$, $XC(NO(COR^4))R^{4'}$, XCN, XCOOH, $XCOOR^4$, $XCONH_2$, $XCONR^4R^{4'}$, $XCONHR^4$, XCONHOH, $XCONHOR^4$, $XCOSR^4$, XSR^4, $XSOR^4$, XSO_2R^4, SO_2NH_2, SO_2NHR^4, $SO_2NR^4R^{4'}$, NO_2, XNH_2, $XNHR^4$, $XNR^4R^{4'}$, $XNHSO_2R^4$, $XN(SO_2R^4)(SO_2R^{4'})$, $XNR^4SO_2R^{4'}$, $XNHCOR^4$, $XNHCOOR^4$, $XNHCONHR^4$, tetrahydro-2,5-dioxopyrrol-1-yl and, 2,5-dihydro-2,5-dioxopyrrol-1-yl, 2,7-dihydro-2,7-dioxoisoindol-1-yl, R^4, wherein ~~whereby~~ two **R^2** substituents ~~at **R^2**~~, if they are in ortho-position to one another, can be optionally linked to one another in such a way that they jointly form methanediyl-bisoxy, ethane-1,2-diylbisoxy,

propane-1,3-diyl, or butane-1,4-diyl~~,~~;

R^3 stands for one or two substituents~~,~~ which ~~form~~ are each, independently of one another:

hydrogen, F, Cl, Br, I, XOH, XOR^4, $XOCOR^4$, $XOCONHR^4$, $XOCOOR^4$, $XCOR^4$, $XC(NOH)R^4$, $XC(NOR^4)R^{4'}$, $XC(NO(COR^4))R^{4'}$, XCN, XCOOH, $XCOOR^4$, $XCONH_2$, $XCONHR^4$, $XCONR^4R^{4'}$, XCONHOH, $XCONHOR^4$, $XCOSR^4$, XSR^4, $XSOR^4$, XSO_2R^4, SO_2NH_2, SO_2NHR^4, $SO_2NR^4R^{4'}$, NO_2, XNH_2, $XNHR^4$, $XNR^4R^{4'}$, $XNHSO_2R^4$, $XNR^4SO_2R^{4'}$, $XN(SO_2R^4)(SO_2R^{4'})$, $XNHCOR^4$, $XNHCOOR^4$, $XNHCONHR^4$, tetrahydro-2,5-dioxopyrrol-1-yl, 2,5-dihydro-2,5-dioxopyrrol-1-yl, 2,7-dihydro-2,7-dioxoisoindol-1-yl, or R^4, ~~whereby~~ wherein two substituents **R^3**, if they are in ortho-position to one another, can be optionally linked to one another in such a way that they jointly form methanediylbisoxy, ethane-1,2-diylbisoxy, propane-1,3-diyl, or butane-1,4-diyl~~,~~;

R^4 and **$R^{4'}$**, independently of one another, mean C_{1-4} perfluoroalkyl, C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkinyl, C_{3-7} cycloalkyl, (C_{1-3} alkyl-C_{3-7} cycloalkyl), C_{1-3} alkyl-C_{6-10} aryl, C_{1-3} alkyl 5 to 10-membered heteroaryl~~,~~ with 1-4 N, S or O atoms, C_{6-10} aryl~~,~~ or 5- to 10-membered heteroaryl with 1-4 N, S or O atoms, ~~whereby~~wherein the C_{6-10} aryl and heteroaryl groups can be optionally substituted with one or two substituents selected from ~~the group that consists of~~ F, Cl, Br, CH_3, C_2H_5, NO_2, OCH_3, OC_2H_5, CF_3, and C_2F_5~~,~~ or else can carry an annelated methanediylbisoxy group or ethane-1,2-diylbisoxy group, and ~~in~~ wherein a 5-membered cycloalkyl ring, ~~a ring member~~ can ~~be~~ optionally have an N or O ring member, and ~~in~~ wherein a 6- or 7-membered cycloalkyl ring

cycloalkyl ring can optionally have one or two ring members ~~can be~~ selected from N and~~/or~~ O, ~~whereby~~ wherein ring nitrogens optionally can be substituted with C_{1-3} alkyl or C_{1-3} alkanoyl,

R^5 and $R^{5'}$, independently of one another, mean hydrogen, C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkinyl, ~~whereby~~ wherein in each case a carbon atom can be ~~exchanged~~ optionally replaced by O, S, SO, SO_2, NH, N C_{1-3} alkyl or N C_{1-3} alkanoyl, C_{3-7} cycloalkyl-C_{0-3} alkyl, wherein ~~whereby in~~ a 5-membered cycloalkyl ring~~, a ring member~~ can ~~be~~ optionally have ~~an~~ N or ~~an~~ O ring member and ~~in~~ a 6- or 7-membered cycloalkyl ring can optionally have one or two ring members ~~can be~~ selected from N and~~/or~~ O, ~~whereby~~wherein ring nitrogens optionally can be substituted with C_{1-3} alkyl or C_{1-3} alkanoyl,

C_{6-10} aryl or 5- to 10-membered heteroaryl with 1-4 heteroatoms selected from N, S, and O, whereby the mentioned alkyl, alkenyl and alkinyl chains can be substituted with one of the previously mentioned cycloalkyls, aryls or heteroaryls,

whereby all previously mentioned alkyl and cycloalkyl radicals can optionally be substituted with up to two substituents selected from ~~consisting of~~ CF_3, C_2F_5, OH, O C_{1-3} alkyl, NH2, NH C_{1-3} alkyl, NH C_{1-3} alkanoyl, N (C_{1-3} alkyl)$_2$, N(C_{1-3} alkyl)(C_{1-3} alkanoyl), COOH, $CONH_2$, and COO C_{1-3} alkyl, and all previously mentioned aryl and heteroaryl groups can be optionally substituted with one or two substituents selected from ~~the group that consists of~~ F, Cl, Br, CH_3, C_2H_5, NO_2, OCH_3, OC_2H_5, CF_3, and C_2F_5, or else can carry an annelated methanediylbisoxy, ethane-1,2-diylbisoxy group, or

R^5 and $R^{5'}$ together with the nitrogen atom form a 5-to 7-membered

heterocyclic group ~~compound~~, which can optionally contain another oxygen, nitrogen or sulfur atom and can be optionally substituted ~~with~~ by C_{1-4} alkyl, C_{1-4} alkoxy-C_{0-2} alkyl, C_{1-4} alkoxy-carbonyl, aminocarbonyl or phenyl,

A means C_{1-10} alkanediyl, C_{2-10} alkenediyl, C_{2-10} alkinediyl, (C_{0-5} alkanediyl-C_{3-7} cycloalkanediyl-C_{0-5} alkanediyl), (C_{0-5} alkanediylarylene-C_{0-5} alkanediyl), or (C_{0-5} alkanediyl-heteroarylene-C_{0-5} alkanediyl),

wherein ~~whereby~~ the aryl and heteroaryl groups can optionally be substituted with one or two substituents ~~that consist of~~ selected from F, Cl, Br, CH_3, C_2H_5, NO_2, OCH_3, OC_2H_5, CF_3, and C_2F_5, ~~whereby in~~ wherein a 5-membered cycloalkyl ring can optionally have a ring member ~~can be an~~ selected from N and O, and ~~in~~ a 6- or 7-membered cycloalkyl ring can optionally have one or two ring members ~~can be~~ selected from N and~~/or~~ O, wherein ring nitrogens optionally can be substituted with C_{1-3} alkyl or C_{1-3} alkanoyl,

~~whereby~~ wherein the mentioned aliphatic chains, ~~a carbon atom~~ one or two carbon atoms can each optionally be ~~exchanged for~~ replaced by for O, NH, NR^4, $NCOR^4$, or NSO_2R^4,

and wherein alkyl or cycloalkyl groups can be substituted with up to two substituents ~~consisting of~~ selected from F, OH, OR^4, $OCOR^4$, =O, NH_2, $NR^4R^{4'}$, $NHCOR^4$, $NHCOOR^4$, $NHCONHR^4$, $NHSO_2R^4$ SH, and SR^4,

B means hydrogen, OH, $OCOR^5$, $OCONHR^5$, $OCOOR^5$, COR^5, $C(NOH)R^5$, $C(NOR^5)R^{5'}$,

$C(NO(COR^5))R^{5'}$, COOH, $COOR^5$, $CONH_2$, $CONHNH_2$, $CONHR^5$, $CONR^5R^{5'}$,

CONHOH, $CONHOR^5$, SO_3H, SO_2NH_2, SO_2NHR^5, $SO_2NR^5R^{5'}$,

or tetrazolyl, respectively bonded to a carbon atom of group **A**,

or the entire group **Y-A-B** is $N(SO_2R^4)(SO_2R^{4'})$ or $NHSO_2R^4$,

X means a bond, CH_2, $(CH_2)_2$, $CH(CH_3)$, $(CH_2)_3$, $CH(CH_2CH_3)$, $CH(CH_3)CH_2$, or $CH_2CH(CH_3)$,

Y means a bond, O, S, SO, SO_2, NH, NR^4, $NCOR^4$, NSO_2R^4.

~~for the production of a pharmaceutical agent for treating or preventing diseases that are associated with a microglia activation.~~

16. (Amended) ~~Use~~ A method according to claim 15, ~~whereby in general formula II~~ wherein

$\mathbf{R^1}$ means a monocyclic or bicyclic aryl group or a monocyclic or bicyclic 5- to 10-membered heteroaryl group with 1-2 heteroatoms selected from ~~the group that consists of~~ N, S and ~~or~~ O, ~~whereby~~ wherein said ~~the mentioned~~ aryl or heteroaryl group can be optionally substituted with up to three of the following substituents, independently of one another:

F, Cl, Br,

XOH, XOR^4, $XOCOR^4$, $XOCONHR^4$, $XOCOOR^4$,

$XCOR^4$, XCN, XCOOH, $XCOOR^4$, $XCONH_2$, $XCONR^4R^{4'}$, $XCONHR^4$,

XCONHOH,

$XCONHOR^4$, $XCOSR^4$, XSR^4, NO_2, $XNHR^4$, $XNR^4R^{4'}$, and

R^4,

~~whereby~~ wherein two $\mathbf{R^1}$ substituents ~~at $\mathbf{R^1}$~~, if they are in ortho-position to one another, can be linked to one another in such a way that they jointly form methanediylbisoxy, ethane-1,2-diylbisoxy, propane-1,3-diyl, butane-1,4-diyl.

17. (Amended) ~~Use~~ Amethod according to claim 15, ~~whereby in general formula II~~,wherein

$\mathbf{R^2}$ means a monocyclic or bicyclic aryl group or a monocyclic or bicyclic 5- to 10-membered heteroaryl group with 1-2 heteroatoms selected from ~~the group that consists~~ of N, S ~~or~~ and O, ~~whereby the mentioned~~ wherein said aryl group

10-membered heteroaryl group with 1-2 heteroatoms selected from ~~the group that consists~~ of N, S ~~or~~ and O, ~~whereby the mentioned~~ wherein said aryl group or heteroaryl group can be optionally substituted with up to three of the following substituents, independently of one another:

F, Cl, Br, XOH, XOR^4, $XOCOR^4$, $XOCONHR^4$, $XOCOOR^4$,

$XCOR^4$, $XC(NOH)R^4$,

$XC(NOR^4)R^{4'}$, $XC(NO(COR^4))R^{4'}$, XCN, XCOOH, $XCOOR^4$, $XCONH_2$,

$XCONR^4R^{4'}$,

$XCONHR^4$, XCONHOH, $XCONHOR^4$, $XCOSR^4$, XSR^4, $XSOR^4$, XSO_2R^4,

SO_2NH_2, SO_2NHR^4, $SO_2NR^4R^{4'}$, NO_2, XNH_2, $XNHR^4$, $XNR^4R^{4'}$, $XNHSO_2R^4$,

$XN(SO_2R^4)(SO_2R^{4'})$, $XNR^4SO_2R^{4'}$, $XNHCOR^4$, $XNHCOOR^4$, $XNHCONHR^4$,

R^4,

whereby two $\mathbf{R^2}$ substituents , ~~at $\mathbf{R^2}$~~ if they are in ortho-position to one another, can be optionally linked to one another in such a way that they jointly form methanediylbisoxy, ethane-1,2-diylbisoxy, propane-1,3-diyl or, butane-1,4-diyl.

18. (Amended) ~~Use~~ A method according to claim 15, wherein ~~whereby in general formula II~~

$\mathbf{R^3}$ stands for one or two substituents, which independently of one another, each mean:

hydrogen,

F, Cl, Br, XOH, XOR^4, $XOCOR^4$, $XOCONHR^4$,

$XOCOOR^4$, $XCOR^4$, $XC(NOH)R^4$, $XC(NOR^4)R^{4'}$, $XC(NO(COR^4))R^{4'}$,

XCN, XSR^4, $XSOR^4$, XSO_2R^4, SO_2NH_2, SO_2NHR^4, $SO_2NR^4R^{4'}$, NO_2, XNH_2,

$XNHR^4$, $XNR^4R^{4'}$, $XNHSO_2R^4$, $XNR^4SO_2R^{4'}$, $XN(SO_2R^4)(SO_2R^{4'})$,

$XNHCOR^4$, $XNHCOOR^4$, $XNHCONHR^4$, or R^4, wherein ~~whereby~~two substituents $\mathbf{R^3}$, if they are in ortho-position to one another, can be linked to one another in such a way that they jointly form methanediylbisoxy, ethane-1,2-diylbisoxy, propane-1,3-diyl or, butane-1,4-diyl.

R^4 and $R^{4'}$, independently of one another, mean CF_3, C_2F_5, C_{1-4} alkyl, C_{2-4} alkenyl, C_{2-4} alkinyl, C_{3-6} cycloalkyl, (C_{1-3} alkyl-C_{3-6} cycloalkyl), C_{1-3} alkylaryl, C_{1-3} alkylheteroaryl, monocyclic aryl or 5- to 6-membered heteroaryl with 1-2 N, S or O atoms, wherein said ~~whereby the~~ aryl and heteroaryl groups can be optionally substituted with one or two substituents selected from ~~the group that consists of~~ F, Cl, Br, CH_3, C_2H_5, NO_2, OCH_3, OC_2H_5, CF_3 and, C_2F_5, or else can carry an annelated methanediylbisoxy or ethane-1,2-diylbisoxy group, and in addition ~~in~~ a 5-membered cycloalkyl ring can optionally have, a ring member ~~can be an~~ selected from N ~~or an~~ and O, ~~in~~ and a 6-membered cycloalkyl ring can optionally have, one or two ring members selected from ~~can be~~ N and~~/or~~ O, wherein ~~whereby~~ ring nitrogens optionally can be substituted with C_{1-3} alkyl or C_{1-3} alkanoyl.

20. (Amended) ~~Use~~ A method according to claim 15, wherein ~~whereby in general formula II~~

R^5 and $R^{5'}$, independently of one another, can be C_{1-6} alkyl~~,~~ wherein a carbon atom can optionally be ~~exchanged for~~ replaced by O, NH, N C_{1-3} alkyl, N C_{1-3} alkanoyl or, C_{3-7} cycloalkyl-C_{0-3} alkyl, ~~whereby in~~ wherein a 5-membered cycloalkyl ring~~,~~ can optionally have a ring member ~~can be an~~ N ~~or~~ and ~~an~~ O, and ~~in~~ a 6- or 7-membered cycloalkyl ring~~,~~ can optionally have one or two ring members ~~can be~~ selected from N and~~/or~~ O, ~~whereby~~ wherein ring nitrogens optionally can be substituted with C_{1-3} alkyl or C_{1-3} alkanoyl, wherein ~~whereby~~ the mentioned C_{1-6} alkyl part can optionally be substituted with one of the previously mentioned cycloalkyls or else a 5- to 6-membered heteroaromatic group ~~compound~~with 1-2 heteroatoms, selected from ~~the group that consist of~~ N, S and ~~or~~ O,
wherein ~~whereby~~ all previously mentioned alkyl and cycloalkyl parts can be substituted with up to two substituents selected from ~~that consists of~~ CF_3, OH, and O C_{1-3} alkyl, and the previously mentioned heteroaryl groups can optionally be substituted with one or two substituents selected from ~~can consist of~~ F, Cl, CF_3, CH_3, C_2H_5, OCH_3 and, OC_2H_5,

or R^5 and $R^{5'}$ together with the nitrogen atom form a 5- to 7-membered heterocyclic group ~~compound~~which optionally contains ~~can contain~~ another oxygen, nitrogen or sulfur atom and ~~can be~~ is optionally substituted by ~~with~~ C_{1-4} alkyl, C_{1-4} alkoxy-C_{0-2} alkyl, C_{1-4} alkoxy-carbonyl, aminocarbonyl or phenyl.

21. (Amended) ~~Use~~ A method according to claim 15, wherein ~~whereby in general formula II~~

A means C_{1-10} alkanediyl, C_{2-10} alkenediyl, C_{2-10} alkinediyl, (C_{0-5} alkanediyl-C_{3-7} cycloalkanediyl-C_{0-5} alkanediyl), or (C_{0-5} alkanediyl-heteroarylene-C_{0-5} alkanediyl), wherein ~~whereby an optionally present~~ if a heteroaryl group ~~can be~~ is present it is optionally substituted with one or two substituents ~~that consists of~~ selected from F, Cl, Br, CH_3, C_2H_5, NO_2, OCH_3, OC_2H_5, CF_3 and, C_2F_5, and in addition ~~in~~ a 5-membered cycloalkyl ring~~,~~ can optionally have a ring member ~~can be an~~ selected from N ~~or an~~ and O, and ~~in~~ a 6- or 7-membered cycloalkyl ring can optionally have one or two ring members ~~can be~~ selected from N and~~/or~~ O, ~~whereby~~ wherein ring nitrogens optionally can be substituted with C_{1-3} alkyl or C_{1-3} alkanoyl,
wherein ~~whereby~~ in ~~an~~ aliphatic chains~~, a carbon atom~~ one or two carbon atoms can be replaced by ~~exchanged for~~ O, NH, N C_{1-3} alkyl, N C_{1-3} alkanoyl, or NSO_2 C_{1-3} alkyl,
and whereby alkyl or cycloalkyl parts can be optionally substituted with up to two F atoms or ~~one of the~~ by the substituents selected from ~~that consists of~~ OH, O C_{1-3} alkyl, O C_{1-3} alkanoyl, =O, NH_2, NH C_{1-3} alkyl, N (C_{1-3} alkyl)$_2$, NH C_{1-3} alkanoyl, N (C_{1-3} alkyl) (C_{1-3} alkanoyl), NHCOO C_{1-3} alkyl, NHCONH C_{1-3} alkyl, $NHSO_2$ C_{1-3} alkyl, SH and, S C_{1-3} alkyl.

22. (Amended) ~~Use~~ A method according to claim 15, wherein ~~whereby in general formula II~~

B means hydrogen, OH, $OCOR^5$, $OCONHR^5$, $OCOOR^5$, COOH, $COOR^5$, $CONH_2$, $CONHR^5$, $CONR^5R^{5'}$, CONHOH, $CONHOR^5$, or

tetrazolyl, in each case bonded to a carbon atom of group **A**.

23. (Amended) ~~Use~~ A method according to claim 15, wherein ~~whereby in general formula II~~

X means a bond or CH_2.

24. (Amended) ~~Use~~ A method according to claim 15, wherein ~~whereby in general formula II~~

Y means a bond, O, S, NH, NR^4, $NCOR^4$ or NSO_2R^4